PTO/SB/51 (02-01)
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As a below named inventor, I hereby declare that:  My residence, mailing address and citizenship are stated below next to my name.  2 4 20021 believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is described and claimed in patent number 4,975,857,granted	SUPPLEMENTAL REISSUE APPLICATION DECLARATION BY THE INVENTOR	Docket Number (Optional)
My residence, mailing address and citizenship are stated below next to my name.  14 2001 believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is described and claimed	REIGGE AFFEIGATION DECEMATION DE THE INVENTOR	500.26967RC1
Improved Data Transfer to Reduce Memory Size the specification of which  is attached hereto.  X was filed on March 28, 2000 as reissue application number 09 / 536,646 and was amended on 3/28/00; 6/1/00 & 4/24/02  (If applicable)  I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment referred to above. I acknowledge the duty to disclose information which is material to patentability as defined in	As a below named inventor, I hereby declare that:  My residence, mailing address and citizenship are stated below not believe I am the original, first and sole inventor (if only one name joint inventor (if plural names are listed below) of the subject matter in patent number4,975,857,grantedDecember 4.  Teissue patent is sought on the invention entitled Graphic Procesum Improved Data Transfer to Reduce Memory Size the specification of which  is attached hereto.	ext to my name. is listed below) or an original, first and er which is described and claimed , 1990, and for which a essing Apparatus Utilizing,  number09_/_536,646  ed specification, including the claims,
	X by reason of the patentee claiming more or less than he had	the right to claim in the patent.
$\overline{\mathbf{X}}$ by reason of the patentee claiming more or less than he had the right to claim in the patent.	X by reason of other errors. (See attachment)	
	At least one error upon which reissue is based is described below	
X by reason of other errors. (See attachment)  At least one error upon which reissue is based is described below. If the reissue is a broadening		
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[Page 1 of 2]

Burden Hour Statement: This form is estimated to take 0.5 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

PTO/SB/51 (02-01) Approved for use through 01/31/2004. OMB 0651-0033 U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number. Docket Number (Optional) (REISSUE APPLICATION DECLARATION BY THE INVENTOR, page 2) 500.26967RC1 All errors corrected in this reissue application arose without any deceptive intention on the part of the applicant. As a named inventor, I hereby appoint the following attorney(s) and/or agent(s) to prosecute this application and transact all business in the United States Patent and Trademark Office connected therewith. . Name(s) Registration Number See Attached List of Attorneys © rrespondence Address: Direct all communications about the application to: 020457 X Place Customer Number Bar **Customer Number** Code Label here Type Customer Number here Firm or — Individual Name Address Address Zip State City Country Telephone Fax I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine and imprisonment, or both, under 18 U.S.C. 1001, and that such willful false statements may jeopardize the validity of the application, any patent issuing thereon, or any patent to which this declaration is directed. Full name of sole or first inventor (given name, family name) Koyo KATSURA Date Inventor's signature Citizenship Residence Japan Hitachiota-sho, Japan Mailing Address c/o Hitachi, Ltd., Intellectual Property Group New Marunouchi Bldg. 5-1 Marunouchi 1-chome, Chiyoda-ku, Full name of second joint inventor (given name, family name) Shinichi KOJIMA Inventor's signature Date Citizenship Residence Maebashi-chi, Japan New Marunouchi Bldg. 5-1 Ltd., Intellectual Property Group Marunouchil-chome, Chivoda-ku, Tokyo, Full name of third joint inventor (given name, family name)

Mailing Address c/o Hitachi, Ltd., Intellectual Property Group, New Marunochi Bldg., 5-1 Marunouchi I-chome, Chiyoda-ku, Tokyo, JAPAN

Date

Citizenship

Inventor's signature

Takasaki-shi, Japan

Additional joint inventors are named on separately numbered sheets attached hereto.

Residence

Noriyuki KURAKAMI

PTO/SB/02C (3-97)

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## **DECLARATION**

### **REGISTERED PRACTITIONER INFORMATION** (Supplemental Sheet)

Name	Registration Number	Name	Registration Number
Robert M. Bauer	34,487	•	
James N. Dresser	22,973	·	}
Melvin Kraus	22,466		,
Gregory E. Montone	28,141		)
Alan E. Schiavelli	32,087		
Ronald J. Shore	28,577	•	
Paul J. Skwierawski	32,173		
William I. Solomon	28,565		
Donald E. Stout	26,422		
Carl I. Brundidge	29,621		
Donald R. Antonelli	20,296		
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# Attachment to PTO/SB/5 1 (12-97) Reissue Application Declaration by the Inventor

### I hereby delete that:

Every error in the patent which was corrected in the present Reissue application, and which is not covered by the prior Reissue Declaration submitted in this application, arose without any deceptive intention on the part of the Applicants.

At least one error upon which reissue is based is described as follows:

Specifically, during review of the specification and claims of U.S. Patent No. 4,975,857, subsequent to its issuance, undertaken as a result of discussions with another party concerning the technology and that party, it was found that the claims thereof were unduly limited in that they called for limitations not necessary to the patentable invention as disclosed.

More particularly, it was discovered that an error arose during the prosecution of U.S. application Serial No. 07/302,332, filed January 27, 1989 from which U.S. Patent No. 4,975,857 issued due to the failure of the inventors and that of the Japanese Agent to fully appreciate and recognize that the invention could have been claimed more broadly. Specifically, the error occurred due to the fact that the claims could have been broadened to recite a memory controller not including various features such as "multiplexer means", to recite that the output means is a digital to analog converter and to recite that the output means is at least one output terminal included in the memory controller.

#### **CLAIM OF PRIORITY:**

Under the provision of title 35, United States Code, Section 119, we reaffirm our claim for priority based upon Japanese Patent Application No. 63-93448, filed in Japan on April 18, 1988, a certified copy of which document and a claim for priority based thereon having been filed in U.S. Application Serial No. 07/302,332, filed January 27, 1989, which matured as U.S. Patent No. 4,975,857.

Under the provision of title 35, United States Code, Section 120, we hereby claim the benefit of U.S. Reissue application Serial No. 07/985,141, filed December 3, 1992, with respect to U.S. application Serial No. 07/302,332, filed January 27, 1989, now U.S. Patent No. 4,975,857 upon which the present Reissue application has been filed, insofar as the subject matter of each of the claims of the present Reissue application is not disclosed in the prior U.S. applications in the manner provided by the first paragraph of title 35, United States Code, Section 112, we hereby acknowledge the duty to disclose material information as defined in title 37, Code of Federal Regulation Section 1.56 which occurred between the filing of the prior U.S. application and the filing of the present Reissue application.